Syllabus
MSNE 582 – Electron Microscopy Center Lab Spring 2016

Instructor Information
Instructor: Prof. Emilie Ringe
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Grading: standard letter
Office Hours: by appointment

Course Identification
Course Name: Electron Microscopy Center Lab
Meeting times: To be arranged by groups
Location: Brockman B05

Course Description and Objectives
Hands-on lab course in groups of 3. Includes 6-8 labs of ~3.5 hours on SEM/FIB, S/TEM, and data analysis software. Includes SEM/FIB, atomic resolution TEM and STEM imaging, diffraction mapping, tomography, EDS/EELS mapping, and student-led lab with research samples.
Students will gain the knowledge necessary to operate the Titan independently.

Experience on electron microscope mandatory. Open to graduates only, permission required, contact the instructor for further information. Enrollment capped at 15 students. Co-requisite: MSNE580.

Evaluation and Grade Policy
Lab reports, pre-lab quizzes, participation, and a final hands-on test will be used to assess student's performance.

Any student with a disability requiring accommodations in this class is encouraged to contact the instructor. Additionally, students should contact the coordinator for Disabled Student Services in Allen Center.